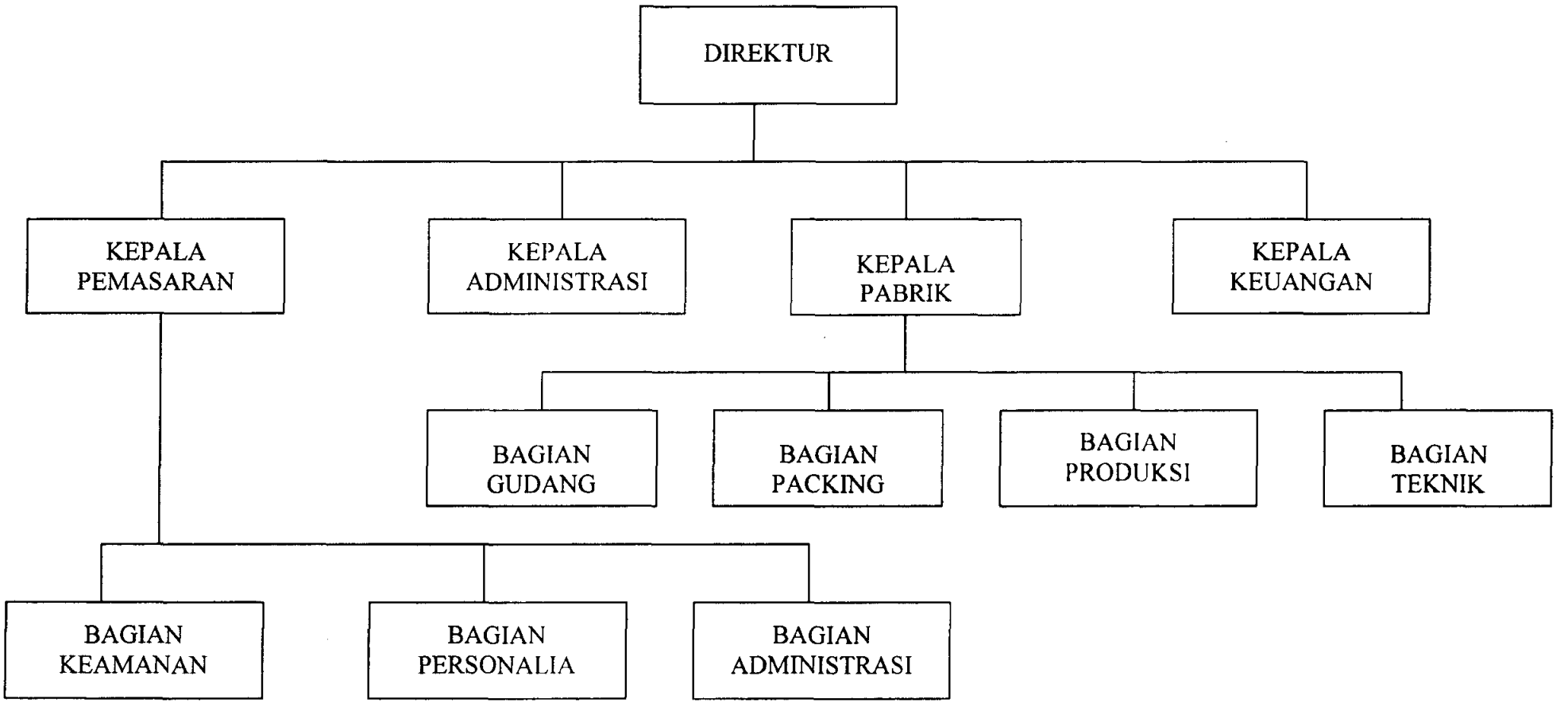
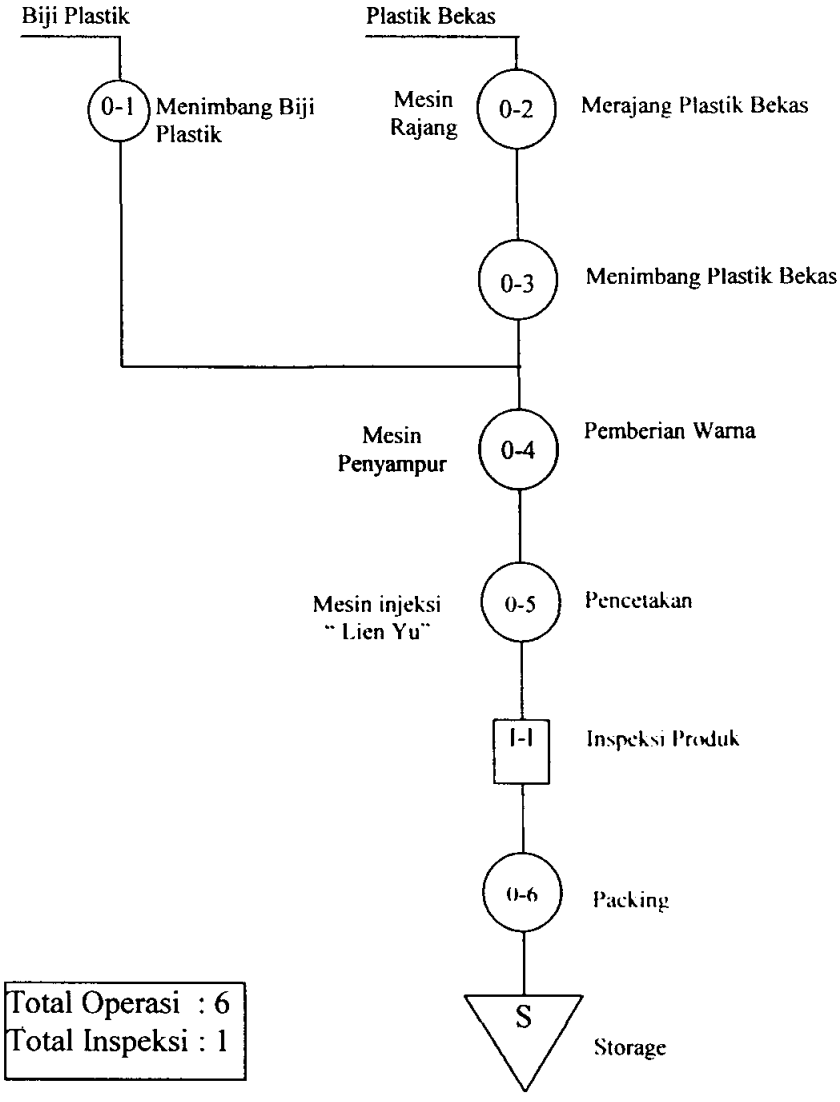
LAMPIRAN

PT. GARUDA PLASTIK



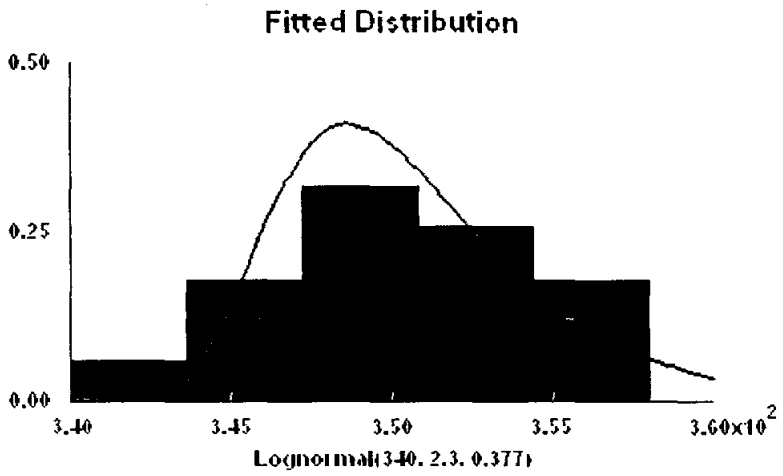
Gambar 4.3.1 Struktur organisasi PT. Garuda Plastik

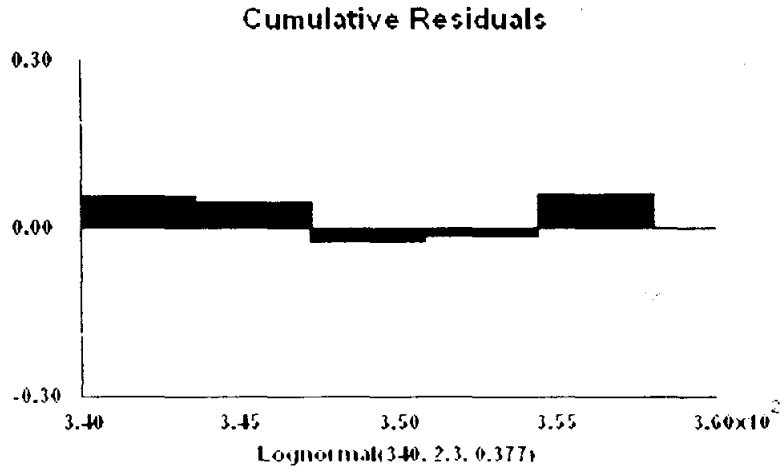
Operation Process Chart		*Worker/ Material/ Equipment Type*
Chart No. 1	*Sheet* No. 1	*OF.*1
Subject Charted Pembuatan Pot Plastik		
Activity : Pembuatan Pot Plastik		
Method : Present *Location : Plant Production*		
	Clock : 08.00 – 16.00	
Charted By : Gondo *Approved By* : Wahyudi	*Date* 25 - 08 - 2005 *Date* 27 - 08 - 2005	



Total Operasi : 6
Total Inspeksi : 1

Distribusi Kontaktor





Auto::Fit Distributions

distribution	rank	acceptance
Lognormal(340, 2.3, 0.377)	97.5	accept
Beta(340, 358, 3.54, 2.69)	56	accept
Weibull(340, 3.16, 11.9)	43.3	accept
Pearson 5(340, 6.59, 60.8)	38.5	accept
Uniform(340, 358)	0.0276	reject
Triangular(340, 358, 358)	5.24e-05	reject

goodness of fit

ta points	50
timates	maximum likelihood estimates
curacy of fit	0.0003
vel of significance	0.05

summary

stribution	Chi Squared	Kolmogorov Smirnov	Anderson Darling
eta(340, 358, 3.54, 2.69)	4.8 (4)	0.112	10.6
ognormal(340, 2.3, 0.377)	2.4 (4)	0.113	4.63
earson 5(340, 6.59, 60.8)	8.8 (4)	0.143	5.01
riangular(340, 358, 358)	19.2 (4)	0.307	9.53
niform(340, 358)	9.6 (4)	0.233	12.7
Veibull(340, 3.16, 11.9)	4.8 (4)	0.139	4.46

detail

eta

minimum	=	340 [fixed]
maximum	=	358
p	=	3.54237
q	=	2.68902

Chi Squared

total classes	5
interval type	equal probable
net bins	5
chi**2	4.8
degrees of freedom	4
alpha	0.05
chi**2(4,0.05)	9.49
p-value	0.308
result	DO NOT REJECT

Kolmogorov-Smirnov

data points	50
ks stat	0.112
alpha	0.05
ks stat(50,0.05)	0.188
p-value	0.519
result	DO NOT REJECT

Anderson-Darling

data points	45
ad stat	10.6
alpha	0.05
ad stat(0.05)	2.49
p-value	0
result	REJECT

ognormal

minimum = 340 [fixed]
mu = 2.29942
sigma = 0.377479

Chi Squared

total classes	5
interval type	equal probable
net bins	5
chi**2	2.4
degrees of freedom	4
alpha	0.05
chi**2(4,0.05)	9.49
p-value	0.663
result	DO NOT REJECT

Kolmogorov-Smirnov

data points	50
ks stat	0.113
alpha	0.05
ks stat(50,0.05)	0.188
p-value	0.506
result	DO NOT REJECT

Anderson-Darling

data points	48
ad stat	4.63
alpha	0.05
ad stat(0.05)	2.49
p-value	0.00432
result	REJECT

Pearson 5

minimum = 340 [fixed]
alpha = 6.59159
beta = 60.7915

Chi Squared

total classes	5
interval type	equal probable
net bins	5

chi**2	8.8
degrees of freedom	4
alpha	0.05
chi**2(4,0.05)	9.49
p-value	0.0663
result	DO NOT REJECT

Kolmogorov-Smirnov

data points	50
ks stat	0.143
alpha	0.05
ks stat(50,0.05)	0.188
p-value	0.231
result	DO NOT REJECT

Anderson-Darling

data points	48
ad stat	5.01
alpha	0.05
ad stat(0.05)	2.49
p-value	0.00286
result	REJECT

riangular

minimum = 340 [fixed]
maximum = 358.182
mode = 357.818

Chi Squared

total classes	5
interval type	equal probable
net bins	5
chi**2	19.2
degrees of freedom	4
alpha	0.05
chi**2(4,0.05)	9.49
p-value	0.000718
result	REJECT

Kolmogorov-Smirnov

data points	50
ks stat	0.307
alpha	0.05
ks stat(50,0.05)	0.188
p-value	0.000114
result	REJECT

Anderson-Darling

data points	48
ad stat	9.53

alpha	0.05
ad stat(0.05)	2.49
p-value	0
result	REJECT

niform

minimum = 340 [fixed]
maximum = 358

Chi Squared

total classes	5
interval type	equal probable
net bins	5
chi**2	9.6
degrees of freedom	4
alpha	0.05
chi**2(4,0.05)	9.49
p-value	0.0477
result	REJECT

Kolmogorov-Smirnov

data points	50
ks stat	0.233
alpha	0.05
ks stat(50,0.05)	0.188
p-value	0.00707
result	REJECT

Anderson-Darling

data points	45
ad stat	12.7
alpha	0.05
ad stat(0.05)	2.49
p-value	0
result	REJECT

Veibull

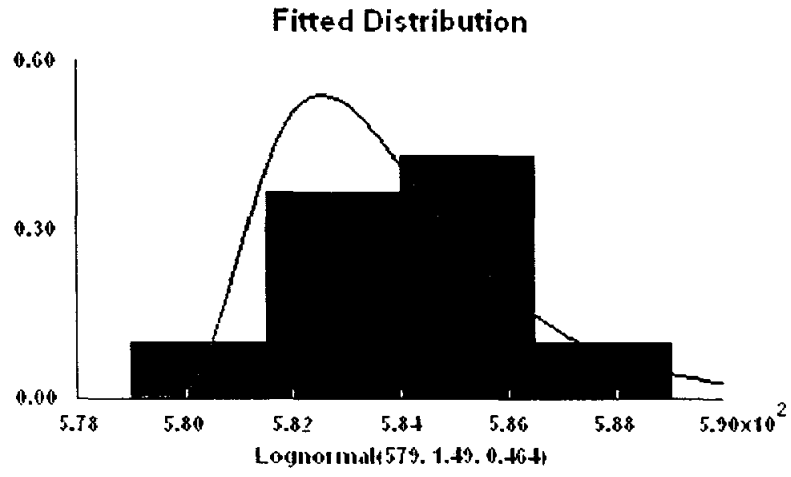
minimum = 340 [fixed]
alpha = 3.15575
beta = 11.9066

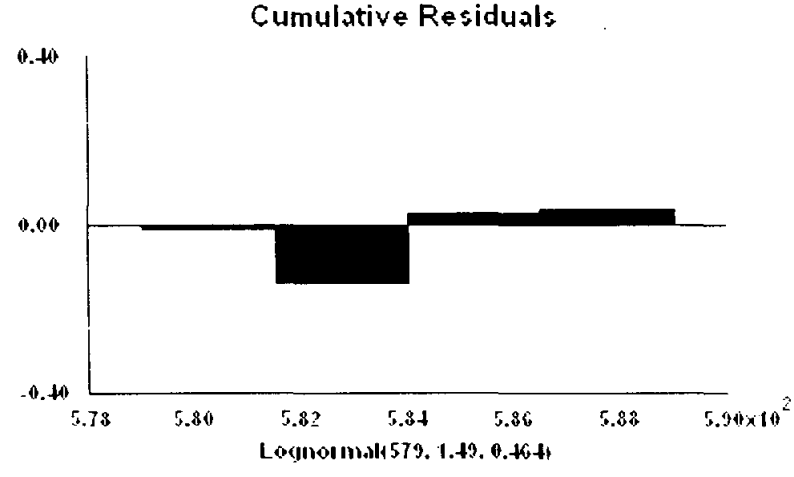
Chi Squared

total classes	5
interval type	equal probable
net bins	5
chi**2	4.8
degrees of freedom	4
alpha	0.05
chi**2(4,0.05)	9.49

p-value	0.308
result	DO NOT REJECT
Kolmogorov-Smirnov	
data points	50
ks stat	0.139
alpha	0.05
ks stat(50,0.05)	0.188
p-value	0.264
result	DO NOT REJECT
Anderson-Darling	
data points	48
ad stat	4.46
alpha	0.05
ad stat(0.05)	2.49
p-value	0.00522
result	REJECT

Distribusi Oring





Auto::Fit Distributions

distribution	rank	acceptance
Lognormal(579, 1.49, 0.464)	97.9	accept
Log-Logistic(579, 4, 4.53)	96.6	accept
Pearson 6(579, 79.8, 5.67, 93.9)	85.3	accept
Erlang(579, 8, 0.588)	56.6	accept
Pearson 5(579, 4.11, 16)	55.8	accept
Beta(579, 615, 4.76, 31)	51.5	accept
Gamma(579, 8.28, 0.568)	48.7	accept
Inverse Gaussian(579, 22.7, 4.7)	47.8	accept
Weibull(579, 2.57, 5.48)	35.1	accept
Uniform(579, 589)	0.784	accept
Exponential(579, 4.7)	0.00292	reject
Pareto(579, 124)	0.00276	reject
Triangular(579, 589, 589)	0	reject

goodness of fit

ta points	30
timates	maximum likelihood estimates
curacy of fit	0.0003
el of significance	0.05

summary

tribution	Chi Squared	Kolmogorov Smirnov	Anderson Darling
ta(579, 615, 4.76, 31)	2.27 (3)	0.159	2.53
ang(579, 8, 0.588)	1.2 (3)	0.155	3.17
ponential(579, 4.7)	11.9 (3)	0.372	6.19
mma(579, 8.28, 0.568)	1.2 (3)	0.16	3.27
verse Gaussian(579, 22.7, 4.7)	1.2 (3)	0.173	2.99
g-Logistic(579, 4, 4.53)	1.2 (3)	0.139	2.65
gnormal(579, 1.49, 0.464)	2.27 (3)	0.138	2.72
reto(579, 124)	11.9 (3)	0.373	6.21
earson 5(579, 4.11, 16)	2.27 (3)	0.158	3.17
earson 6(579, 79.8, 5.67, 93.9)	2.27 (3)	0.148	2.55
iangular(579, 589, 589)	19.3 (3)	0.483	12.9
iform(579, 589)	11.1 (3)	0.233	5.86
eibull(579, 2.57, 5.48)	2.27 (3)	0.187	2.52

detail

eta

minimum = 579 [fixed]
maximum = 615.478
p = 4.75587
q = 30.9543

Chi Squared

total classes	4
interval type	equal probable
net bins	4
chi**2	2.27
degrees of freedom	3
alpha	0.05
chi**2(3,0.05)	7.81
p-value	0.519
result	DO NOT REJECT

Kolmogorov-Smirnov

data points	30
ks stat	0.159
alpha	0.05
ks stat(30,0.05)	0.242
p-value	0.396
result	DO NOT REJECT

Anderson-Darling

data points	29
ad stat	2.53
alpha	0.05
ad stat(0.05)	2.49
p-value	0.048
result	REJECT

rlang

minimum = 579 [fixed]
m = 8
beta = 0.5875

Chi Squared

total classes	4
interval type	equal probable
net bins	4
chi**2	1.2
degrees of freedom	3
alpha	0.05
chi**2(3,0.05)	7.81
p-value	0.753
result	DO NOT REJECT

Kolmogorov-Smirnov

data points	30
ks stat	0.155
alpha	0.05
ks stat(30,0.05)	0.242
p-value	0.422
result	DO NOT REJECT

Anderson-Darling

data points	29
ad stat	3.17
alpha	0.05
ad stat(0.05)	2.49
p-value	0.0224
result	REJECT

xponential

minimum = 579 [fixed]
beta = 4.7
Chi Squared

total classes	4
interval type	equal probable
net bins	4
chi**2	11.9
degrees of freedom	3
alpha	0.05
chi**2(3,0.05)	7.81
p-value	0.00785
result	REJECT

Kolmogorov-Smirnov

data points	30
ks stat	0.372
alpha	0.05
ks stat(30,0.05)	0.242
p-value	0.000313
result	REJECT

Anderson-Darling

data points	29
ad stat	6.19
alpha	0.05
ad stat(0.05)	2.49
p-value	0.000783
result	REJECT

amma
minimum = 579 [fixed]
alpha = 8.27723
beta = 0.567823
Chi Squared

total classes	4
interval type	equal probable
net bins	4
chi**2	1.2
degrees of freedom	3
alpha	0.05
chi**2(3,0.05)	7.81
p-value	0.753
result	DO NOT REJECT

Kolmogorov-Smirnov

data points	30
ks stat	0.16
alpha	0.05

ks stat(30,0.05)	0.242
p-value	0.383
result	DO NOT REJECT

Anderson-Darling

data points	29
ad stat	3.27
alpha	0.05
ad stat(0.05)	2.49
p-value	0.02
result	REJECT

verse Gaussian

minimum = 579 [fixed]
alpha = 22.6952
beta = 4.7

Chi Squared

total classes	4
interval type	equal probable
net bins	4
chi**2	1.2
degrees of freedom	3
alpha	0.05
chi**2(3,0.05)	7.81
p-value	0.753
result	DO NOT REJECT

Kolmogorov-Smirnov

data points	30
ks stat	0.173
alpha	0.05
ks stat(30,0.05)	0.242
p-value	0.294
result	DO NOT REJECT

Anderson-Darling

data points	29
ad stat	2.99
alpha	0.05
ad stat(0.05)	2.49
p-value	0.0277
result	REJECT

.og-Logistic

minimum = 579 [fixed]
p = 3.99844
beta = 4.53316

Chi Squared

total classes	4
interval type	equal probable
net bins	4
chi**2	1.2
degrees of freedom	3
alpha	0.05
chi**2(3,0.05)	7.81
p-value	0.753
result	DO NOT REJECT

Kolmogorov-Smirnov

data points	30
ks stat	0.139
alpha	0.05
ks stat(30,0.05)	0.242
p-value	0.561
result	DO NOT REJECT

Anderson-Darling

data points	29
ad stat	2.65
alpha	0.05
ad stat(0.05)	2.49
p-value	0.0413
result	REJECT

ɔgnormal

minimum = 579 [fixed]
mu = 1.48594
sigma = 0.464431

Chi Squared

total classes	4
interval type	equal probable
net bins	4
chi**2	2.27
degrees of freedom	3
alpha	0.05
chi**2(3,0.05)	7.81
p-value	0.519
result	DO NOT REJECT

Kolmogorov-Smirnov

data points	30
ks stat	0.138
alpha	0.05
ks stat(30,0.05)	0.242
p-value	0.569
result	DO NOT REJECT

Anderson-Darling

data points	29
ad stat	2.72
alpha	0.05
ad stat(0.05)	2.49
p-value	0.0379
result	REJECT

areto

minimum = 579 [fixed]
alpha = 123.796
Chi Squared

total classes	4
interval type	equal probable
net bins	4
chi**2	11.9
degrees of freedom	3
alpha	0.05
chi**2(3,0.05)	7.81
p-value	0.00785
result	REJECT

Kolmogorov-Smirnov

data points	30
ks stat	0.373
alpha	0.05
ks stat(30,0.05)	0.242
p-value	0.000302
result	REJECT

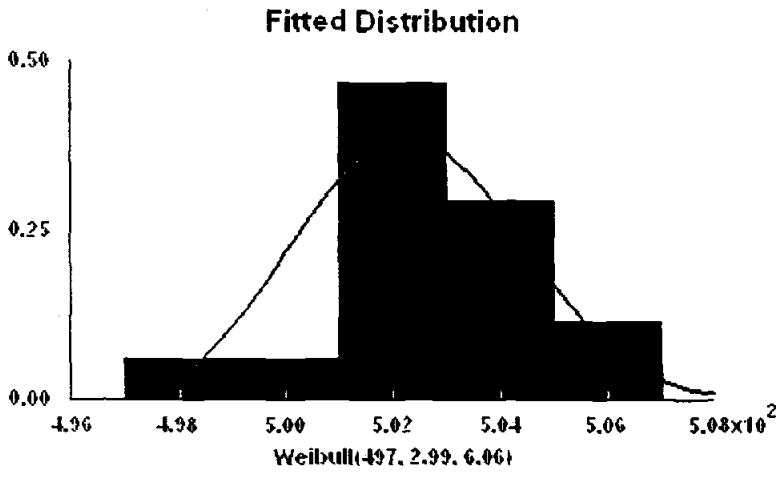
Anderson-Darling

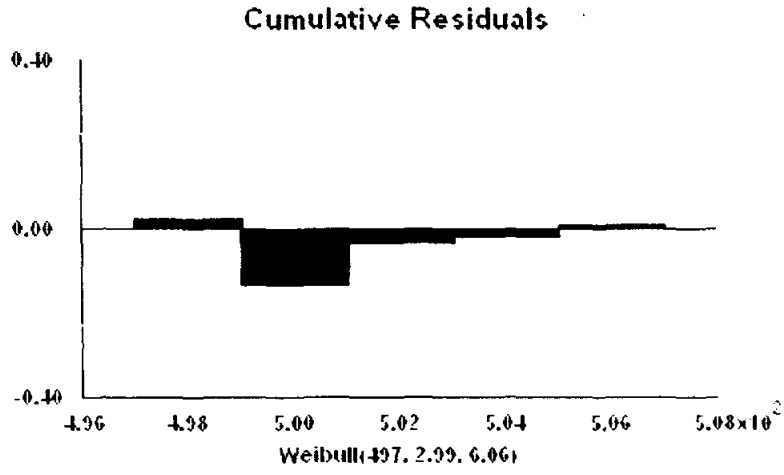
data points	29
ad stat	6.21
alpha	0.05
ad stat(0.05)	2.49
p-value	0.000772
result	REJECT

earson 5
minimum = 579 [fixed]
alpha = 4.10894
beta = 15.9988
Chi Squared

total classes	4
interval type	equal probable
net bins	4
chi**2	2.27

Distribusi Soket





Auto::Fit Distributions

distribution	rank	acceptance
Weibull(497, 2.99, 6.06)	100	accept
Beta(497, 507, 4.17, 4.03)	29.2	accept
Lognormal(497, 1.61, 0.448)	20.2	accept
Pearson 5(497, 4, 17.5)	2.79	reject
Uniform(497, 507)	0.0867	reject
Triangular(497, 507, 507)	0	reject

goodness of fit

ta points	34
timates	maximum likelihood estimates
curacy of fit	0.0003
el of significance	0.05

summary

tribution	Chi Squared	Kolmogorov Smirnov	Anderson Darling
ta(497, 507, 4.17, 4.03)	3.06 (4)	0.186	6.94
gnormal(497, 1.61, 0.448)	5.41 (4)	0.206	3.77
earson 5(497, 4, 17.5)	5.41 (4)	0.244	4.71
angular(497, 507, 507)	21.9 (4)	0.405	9.87
iform(497, 507)	21.9 (4)	0.282	8.39
eibull(497, 2.99, 6.06)	5.41 (4)	0.157	2.91

detail

eta

minimum	=	497 [fixed]
maximum	=	507
p	=	4.1713
q	=	4.0333

Chi Squared

total classes	5
interval type	equal probable
net bins	5
chi**2	3.06
degrees of freedom	4
alpha	0.05
chi**2(4,0.05)	9.49
p-value	0.548
result	DO NOT REJECT

Kolmogorov-Smirnov

data points	34
ks stat	0.186
alpha	0.05
ks stat(34,0.05)	0.227
p-value	0.169
result	DO NOT REJECT

Anderson-Darling

data points	31
ad stat	6.94
alpha	0.05
ad stat(0.05)	2.49
p-value	0
result	REJECT

gnormal

minimum = 497 [fixed]
mu = 1.60899
sigma = 0.448

Chi Squared

total classes	5
interval type	equal probable
net bins	5
chi**2	5.41
degrees of freedom	4
alpha	0.05
chi**2(4,0.05)	9.49
p-value	0.248
result	DO NOT REJECT

Kolmogorov-Smirnov

data points	34
ks stat	0.206
alpha	0.05
ks stat(34,0.05)	0.227
p-value	0.0956
result	DO NOT REJECT

Anderson-Darling

data points	33
ad stat	3.77
alpha	0.05
ad stat(0.05)	2.49
p-value	0.0113
result	REJECT

earson 5

minimum = 497 [fixed]
alpha = 3.99815
beta = 17.5418

Chi Squared

total classes	5
interval type	equal probable
net bins	5

chi**2	5.41
degrees of freedom	4
alpha	0.05
chi**2(4,0.05)	9.49
p-value	0.248
result	DO NOT REJECT

Kolmogorov-Smirnov

data points	34
ks stat	0.244
alpha	0.05
ks stat(34,0.05)	0.227
p-value	0.0288
result	REJECT

Anderson-Darling

data points	33
ad stat	4.71
alpha	0.05
ad stat(0.05)	2.49
p-value	0.00398
result	REJECT

riangular

minimum = 497 [fixed]
maximum = 507.149
mode = 506.851

Chi Squared

total classes	5
interval type	equal probable
net bins	5
chi**2	21.9
degrees of freedom	4
alpha	0.05
chi**2(4,0.05)	9.49
p-value	0.000212
result	REJECT

Kolmogorov-Smirnov

data points	34
ks stat	0.405
alpha	0.05
ks stat(34,0.05)	0.227
p-value	1.53e-05
result	REJECT

Anderson-Darling

data points	33
ad stat	9.87

alpha	0.05
ad stat(0.05)	2.49
p-value	0
result	REJECT

iform
minimum = 497 [fixed]
maximum = 507
Chi Squared

total classes	5
interval type	equal probable
net bins	5
chi**2	21.9
degrees of freedom	4
alpha	0.05
chi**2(4,0.05)	9.49
p-value	0.000212
result	REJECT

Kolmogorov-Smirnov

data points	34
ks stat	0.282
alpha	0.05
ks stat(34,0.05)	0.227
p-value	0.00685
result	REJECT

Anderson-Darling

data points	31
ad stat	8.39
alpha	0.05
ad stat(0.05)	2.49
p-value	0
result	REJECT

Veibull
minimum = 497 [fixed]
alpha = 2.98645
beta = 6.05581
Chi Squared

total classes	5
interval type	equal probable
net bins	5
chi**2	5.41
degrees of freedom	4
alpha	0.05
chi**2(4,0.05)	9.49

p-value	0.248
result	DO NOT REJECT
Kolmogorov-Smirnov	
data points	34
ks stat	0.157
alpha	0.05
ks stat(34,0.05)	0.227
p-value	0.336
result	DO NOT REJECT
Anderson-Darling	
data points	33
ad stat	2.91
alpha	0.05
ad stat(0.05)	2.49
p-value	0.0304
result	REJECT